

BASIS OF BEARINGS

NORTH 27°39'52" EAST, BEING THE BEARING OF THE CENTERLINE OF MAIN STREET BETWEEN COOLIDGE AVENUE AND HOOVER AVENUE AS SHOWN ON A RECORD OF SURVEY ON FILE IN THE OFFICE OF COUNTY RECORDER, CLARK COUNTY, NEVADA, IN FILE 184 AT PAGE 25.

PROJECT BENCHMARK

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

CITY OF LAS VEGAS BENCHMARK: 2LV01-2756  
NAVD88 ELEVATION: 613.0214 METERS (2011.22 FEET)

NDOT MON IN TOP OF CURB @ NE CORNER OF BONANZA AND MAIN.

TRAFFIC SIGNAL SHEET NOTES

1. SEE SHEET 13 FOR TRAFFIC SIGNAL GENERAL NOTES.

STREET LIGHT LEGEND

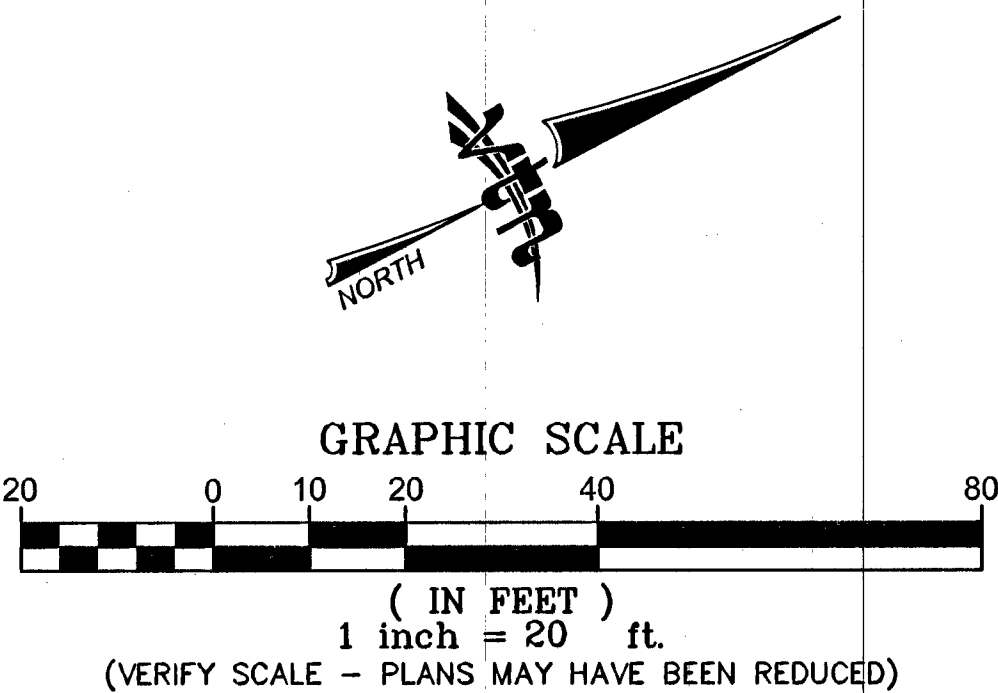
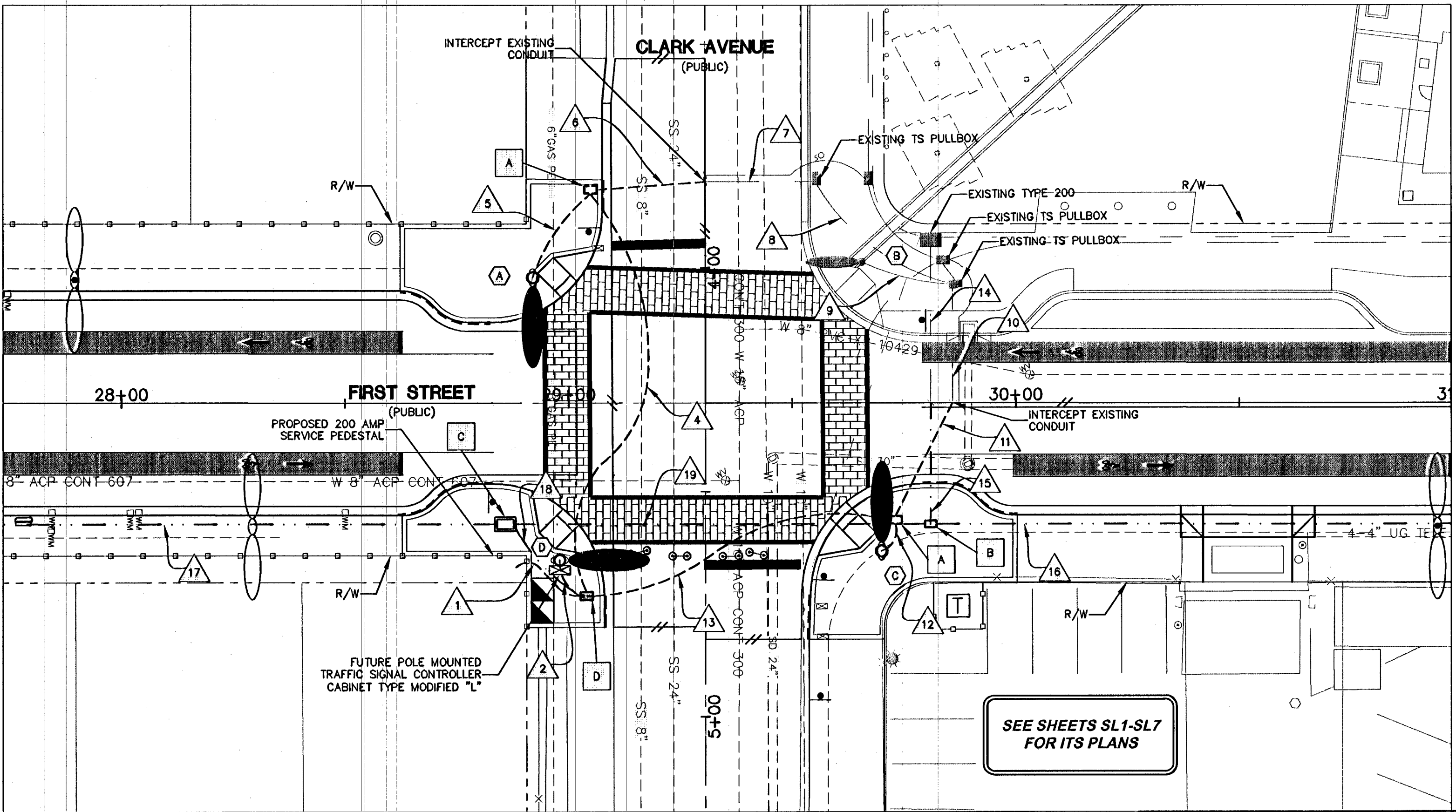
400 WATT STREET LIGHT

PULLBOX LEGEND

- A No. 7 PULL BOX (MARKED "TRAFFIC SIGNAL")
- B P-30 PULL BOX (SEE STREET LIGHT PLANS)
- C TYPE 200 SPLICE VAULT (SEE STREET LIGHT PLANS)
- D TYPE 100 VAULT (MARKED "TRAFFIC SIGNAL")

NOTES:

- SEE SHEETS SL1-SL7 FOR STREET LIGHT PLANS.
- SEE SHEETS SL1-SL7 FOR ITS PLANS.
- EXISTING ITS CONDUIT AND FIBER OPTIC (FO) CABLE MUST BE PROTECT AND MAINTAINED AT ALL TIME.
- CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION WITHIN THE PROJECT LIMITS THE CONTRACTOR IS TO IMMEDIATELY CONTACT MR. JESUS "CHUY" MARMOLEJO (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-604-7078 CELL OR AT 702-432-5300 GENERAL.



FIRST STREET AND CLARK AVENUE

CONDUIT AND WIRE SCHEDULE

| WIRE & CABLE                                    | FROM             | TO          | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|-------------------------------------------------|------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| (2) #4, (1) #8 GROUND (INTERSECTION LIGHTING)   | SERVICE PEDESTAL | TS100 VAULT | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| (2) #10 AWG THW                                 | TS100 VAULT      | LUMINAIRE A |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| (2) #10 AWG THW                                 | TS100 VAULT      | LUMINAIRE B |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| (2) #10 AWG THW                                 | TS100 VAULT      | LUMINAIRE C |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| (2) #10 AWG THW                                 | TS100 VAULT      | LUMINAIRE D |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 6 PAIR REA-PE-39, NO. 22 AWG TWISTED PAIR CABLE | SOUTH            | NORTH       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| NUMBER OF CONDUITS                              |                  |             | 1  | 2  | 1  | 1  | 3  | 1  | 3  | 3  | 3  | 1  | 3  | 3  | 1  | 3  | 1  | 1  | 1  | 1  | 1  |
| CONDUIT SIZE                                    |                  |             | 2" | 3" | 2" | 2" | 3" | 2" | 3" | 3" | 3" | 2" | 3" | 3" | 2" | 3" | 4" | 4" | 4" | 4" | 4" |
| (N)=NEW, (E)=EXISTING CONDUIT                   |                  |             | N  | N  | N  | N  | N  | N  | N  | E  | E  | E  | E  | N  | N  | N  | E  | N  | N  | N  | N  |

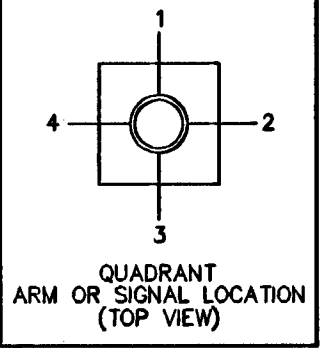
| 200 AMP 240V PAD MOUNT SERVICE    | DESCRIPTION                     |
|-----------------------------------|---------------------------------|
| 2 -2 POLE 60 AMP CIRCUIT BREAKERS | STREETLIGHT CIRCUIT A & B       |
| 2 -1 POLE 15 AMP CIRCUIT BREAKER  | PHOTO EYE FOR STREETLIGHTS      |
| 1 -1 POLE 40 AMP CIRCUIT BREAKER  | TRAFFIC SIGNAL LUMINAIRE        |
| 1 -1 POLE 60 AMP CIRCUIT BREAKER  | FOR THE TRAFFIC CONTROL CABINET |
| -BY-PASS SWITCH PER CONTACTOR     |                                 |
| -2 POLE 60 AMP CONTACTORS         |                                 |

POLE SCHEDULE

| POLE |                        |          |                    |                  |            |                     | SIGNALS VEHICLE |      | SIGNALS PEDESTRIAN |      | PED. PUSH BUTTON |       | RED LIGHT INDICATORS |      |       | REMARKS |                         |
|------|------------------------|----------|--------------------|------------------|------------|---------------------|-----------------|------|--------------------|------|------------------|-------|----------------------|------|-------|---------|-------------------------|
| POLE | LOCATION STATION       | TYPE     | TYPE OF FOUNDATION | SIGNAL ARM QUAD. | ARM LENGTH | LUMINAIRE ARM QUAD. | ARM LENGTH      | TYPE | QUAD.              | TYPE | QUAD.            | QUAD. | SIGN ARROW           | TYPE | QUAD. |         | PHASE                   |
| A    | 29+92.00<br>28.00' LT. | XX       | TYPE "H"           |                  |            | 3                   | 15'             |      |                    |      |                  |       |                      |      |       |         |                         |
| B    | 29+65.5±<br>31.5'± LT. | EX<br>XX | EXIST.<br>TYPE "H" |                  |            | 4                   | 15'             |      |                    |      |                  |       |                      |      |       |         | EXISTING POLE TO REMAIN |
| C    | 29+70.00<br>33.00' RT. | XX       | TYPE "H"           |                  |            | 1                   | 15'             |      |                    |      |                  |       |                      |      |       |         |                         |
| D    | 29+04.00<br>43.00' RT. | XX-A*    | TYPE "L"           |                  |            | 2                   | 15'             |      |                    |      |                  |       |                      |      |       |         |                         |

POLE NOTES

- ALL POLE LOCATIONS ARE BASED FROM FIRST STREET CENTERLINE STATIONING.
- INSTALL TRAFFIC SIGNAL CONDUITS PER USD 733.
- TYPE "L" FOUNDATION PER USDCCA STD. DWG. NO. 722.
- TYPE "H" FOUNDATION PER USDCCA STD. DWG. NO. 721.
- TYPE XX POLES PER USDCCA STD. DWG. NO. 808.
- PAINT POLE BLACK GREEN (RAL 6012) TO CONFORM WITH THE DOWNTOWN CENTENNIAL STANDARDS.
- FURNISH AND INSTALL 400 WATT HPS INTERSECTION LIGHTING WITH IES MC3 DISTRIBUTION COMPLETE WITH 120V MAGNETIC REGULATOR TYPE BALLAST (GARDCO CA22-1-3-400HPS-120-OC-RAL6012 MF PC OR APPROVED EQUAL)
- SEE DETAIL ON SHEET TS5 FOR CUSTOM XX-A POLE.



Public Works Department  
333 N. RANCHO DRIVE  
LAS VEGAS, NV 89106  
702-228-8272

TRAFFIC SIGNAL UNDERGROUND PLAN  
1ST STREET AND CLARK AVENUE  
1ST STREET  
HOOVER AVENUE TO BRIDGER AVENUE

DRAWN BY: 5/16/2013  
DESIGNED BY: 5/16/2013  
CHECKED BY: 5/16/2013  
PROJECT NO: 1046  
SCALE: HORIZ. 1"=20'  
VERT. N/A

FAST  
1-702-432-5300  
FREIGHTWAY AND ARTERIAL  
SYSTEM OF TRANSPORTATION

Call before you Dig  
1-702-227-2929

Call 811

ENGINEER-STATE OF NEVADA  
ROBERT HOSEA JR.  
No. 0012  
5-16-13  
SHEET  
TS1  
56 OF 83 SHEETS  
DRAWING NO.  
107V6664-1ST